Revision ID:		107TRN urning Detail Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*	Accept	*N900 Cust Item I Customer:		100	-	etup Sta Sto	*NS2*		
Approvals:	Process P	lan: MLJ	Date: 17/08/	22 Tooling: SPC (Y/N):		ate:		R	tun Sta Sto	1/1	R1* R2*	
Sequence ID/ Work Center I	**	Operation		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	
Draw Nbr	. R e	evision Nbr										
D212-664-147	7 Re	ev B(DE0)										
*100 *100* Mori Seiki Mori Seiki CNC La	ithe Large	2-Turn firs 3-Blend tra FOLIO RE DWG REV *Use mill b	with sand & install plugs let side as per Folio FA113 unsition lines only, **do no	atedly with file card.	er Folio FA705				Ø	K	2 12-	· 10 - 1
*110 *110* QC Quality Control		QC1- Inspect dimension	ns to dimension sheet	0.00						L	£12-1	10-4

NCR: Ye	s / N	lo

WORK ORDER NON-CONFORMANCE / UPDATE

DOA: 12 11 02

									QA Closed:	Date:	· •		
Work Orde	er:	911	<u> </u>		DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part N	10. <u>D212</u> -	1995	L 10°	TEN	Rework Scrap Use-as-is Work Order Update	The	Machining moforming	Crosstube Small Fab Finishing Composite		Water Jet d. Eng. Coor. re/Packaging Supplier	Engineering Quality Other		
Root				Descri	ption of work order update	Initial	Actio	n	Sign &				
Cause	Date	Step	Qty	(or Non-conformance	Chief En	g Descrip	tion	Date	Verification	QC Inspector		
Doc/Data Equip/Tooling Operator Material Setup Other Process Supplier Training	77/19/24	160	1	Ulhens Se	sound over the. See F.A.I. Sheet.	12 12 140/2	Acceptable well is ab dwg nomini	. Min love	12/10/24	16 2 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	269) 269) Walar		
Unapproved						ļ <u>.</u>							
					<u>F</u>	AULT CAT	EGORY				···		
Landi	ng Gear			_	General				Ovalized		_		
	Landing Gear Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend			o/s	Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes	Hardv Insper Instru Main Misla	Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offcet			tolerance ct sssing Vrong Surge	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other		
	Torque Waves in Extrusion			n	Drawing	Out o	Calibration						
Turning Sequence					Finish	Out of Sequence							
	Wave/Twist in Tube				Folio	Outsi	de Dimensions						

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

	Vork Order ID 89115 19 12 12 2:31:02 PM			*89115*								Pa	ige 2	
tem ID: Revision ID: tem Name:	D212-664-	107TRN urning Detail		Accept	*N900	040	100)*	Setup	Start Stop	171.	S1 ³		
tem Name: Start Date: Required Date Reference:	8/21/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:					IV.	7 /		
Approvals:	Process P QC:	lan:	Date:	Tooling: SPC (Y/N):		ate:	-		Run	Start Stop	"			
Sequence ID/ Work Center	ID ,	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Re Qt		Reject Number	Insp. Stam		
120 Mori Seiki Mori Seiki CNC L	athe Large	MORI SEIKI CNC LAT Memo 1-Turn seco	HE LARGE nd side as per Folio FA70	0.00					_	Ø		<u> L</u>	12-10-	- <
		*Use mill be		atedly with file card.										

0.00

0.00

1 \$ Ke 12-10-5

3- Remove plugs and sand

QC1- Inspect dimensions to dimension sheet

Memo

130

130

Quality Control

											DQA:	Da	ite:	
NCR: Y	es / No	1			WORK ORDER NON-	CO	NFOR	MANCE / UP	DATE		- -			
					<u> </u>		т .	······································	_		QA Closed:	Da	te:	
Work Orde	7 L .				DISPOSITION		AGAINST D				ARTMENT/	PROCESS		
Part N	lo				Rework Scrap Use-as-is		Therm	Skid-tube Machining noforming	Crosstube Small Fab Finishing			Water Jet d. Eng. Coor. e/Packaging		Engineering Quality Other
NCR N	10				Work Order Update	ل		Large Fab	Composite	_	Supplier			
Root				Descri	otion of work order update		Initial Action		tion	T	Sign &			
Cause	Date	Step	Qty	C	or Non-conformance	Cł	nief Eng	Desc	ription		Date	Verification	'n	QC Inspector
Doc/Data														
Equip/Tooling														
Operator						1				ı			1	
Material														
Setup														
Other														
Process														
Supplier														
Training						1				-	:			
Unapproved			<u>.</u>											
						AU	LT CATE	GORY						
Landi	ng Gear			,	General		-							,
	Bendin	g			Bend		Grain			╝	Ovalized		L	Pressure/Forced
2	Centre	⊣ ັ <u>-</u>		BOM/Route		Hardwa	re			Over/Under	tolerance		Temperature/Cure	
	Cracks			Broken/Damaged		Inspecti	on Incomplete			Part Incorred	ct	L	Weld	
				Burrs		Instruct	ions Incomplete/	Unclear		Part Lost/Mi	ssing		Wrong Stock Pulled	
	Cuffs				Contamination		Mainte	enance			Part Moved			
	Heat Tr	eat			Countersink		Mislabe	eled	Γ		Positioned V	Vrong		_
	Inspection Strip in Tube				Cut Too Short		Misread				Power Loss/	Surge		Other

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 89115

20115

Page 3

August-21-12	2:31:02 PM			Λ911:)									_
Item ID: Revision ID:	D212-664-	107TRN			Accept	*N900	040	100)* s	etup Star	1/1	S1*	
Item Name:	Crosstube T	urning Detail								Stop	, *N	S2*	
Start Date:	8/21/12	Start Qty: 1.00		*1*		Cust Item I	D:						
Required Date	e: 9/14/12	Req'd Qty: 1.00		*1*		Customer:							
Reference:				_									
Approvals:	Process P	Plan:	Date:		Tooling:	D	ate:	<u> </u>	R	tun Star	1/1	R1*	
	QC:		_ Date:_		_ SPC (Y/N):	D	ate:			Sto	* * N	R2*	
Sequence ID/ Work Center	ID	Operation Description			Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp	_
140		QC8- Inspect parts - seco	ond check		0.00								
140 QC Quality Control		Memo	,		0.00				The	12	10-24	, 	
												• . • .	
145					0.00				_		1	٠,	
145									JW	(2.1	0.26	, S. J.	
Crosstubes	•	Memo			0.00			(-1				
Crosstubes		GRIND ON	LY TRANSI	TION LINES	SMOOTH LONGITUDE	WAY.							
150					0.00								
150 HandFXtube		Memo			0.00				Ka	1	Z-10	29 29	
Hand Finishing C	rosstubes	1- PRESSU	RE WASH X	-TUBE INSI	DE AND OUT								
		2 ACIDET	CU V TUDE	INICIDE AN	DOUT HEE DED SCOT	CH DDITE							

											DQA:	Date:	
NCR:	Yes	/ No				WORK ORDER NON-	COI	NFOR	MANCE / UPDATE				
		•								··-	QA Closed:	Date:	<u></u>
Work Ord	٥.					DISPOSITION		•	AG	AINST DE	PARTMENT	/PROCESS	
Work Ord	ei.					Rework	7	Skid-tube Crosstube				Water Jet	Engineering
Part	No.					Scrap		Machining Small Fab			Pro	d. Eng. Coor.	Quality
						Use-as-is	1	Thern	noforming Fin	ishing	Rec/Sto	re/Packaging	Other
NCR	No.					Work Order Update]		Large Fab Com	posite		Supplier	
	<u>. </u>	ı		1		iption of work order update Initial Action				C: 0	I .		
Root				٥.		•	t t				Sign &	Various Aires	061
Cause	_	Date	Step	Qty	. (or Non-conformance	Cr	nief Eng	Description		Date	Verification	. QC Inspector
Doc/Data	_					· · · · · · · · · · · · · · · · · · ·						<u> </u>	
Equip/Tooling	_	l	ļ.									.	
Operator												·	*
Material	L	<u> </u>											·
Setup		. ·			, ,								
Other		[1							
Process	L	,					1			•			
Supplier	L				,				•				
Training						•	1						
Unapproved													
						F	AUI	LT CATE	GORY				
Land	ing (Gear				General	_	_	"	·	-	,	-
		Bending				Bend		Grain		Ŀ	Ovalized		Pressure/Forced
-		Centre N	ot Conce	ntric to (o/s	BOM/Route		Hardwa	re1		Over/Under	tolerance	Temperature/Cure
		Cracks				Broken/Damaged		Inspect	ion Incomplete		Part Incorre	ct	Weld -
	Г	Crushed/	Crimped			Burrs		Instruct	ions Incomplete/Unclear		Part Lost/M	issing	Wrong Stock Pulled
		Cuffs				Contamination		Mainte	enance		Part Moved		_
		Heat Trea	at,			Countersink		Mislabė	,	.	Positioned	Wrong	
, ,	Inspection Strip in Tube			-	Cut Too Short	Misread			Power Loss,	_	Other		

Offset

Out of Calibration

Out of Sequence

Outside Dimensions

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Torque Waves in Extrusion

Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Work Order ID 89115 *89115* Page 4 August-21-12 2:31:02 PM Item ID: D212-664-107TRN Accept *N900040100* Setup Start **Revision ID:** Stop Crosstube Turning Detail Item Name: **Start Date:** 8/21/12 Start Qty: 1.00 **Cust Item ID:** Required Date: 9/14/12 Reg'd Qty: 1.00 **Customer:** Reference: Start Run **Tooling:** Approvals: Process Plan: Date: Date: Stop SPC (Y/N): Date: Date: Operation Sequence ID/ Tool ID Tool # Plan Set Up/ Accept Reject Reject Insp. **Work Center ID** Description **Run Hours** Code Qty Qty Number Stamp 160 QC5- Inspect part completeness to step on W/O *160* 17/10/29 QC Memo Quality Control 0.00 170 Packaging RM 12-10-29 *170* Packaging 0.00 Memo Identify and stock in kanban rack Packaging Location: LG

0.00

0.00

180

180 QC

Quality Control

QC21- Final Inspection - Work Order Release

Memo

12/10/31 Af

								-		OA Closed	5.4.			
										QA Closed:	Date:			
or.					DISPOSITION		AGAINST DEPARTMENT/PROCESS							
 lo lo					Rework Skid-tube Crosstube Scrap Machining Small Fab Use-as-is Thermoforming Finishing Work Order Update Large Fab Composite			Small Fab Finishing			Engineering Quality Quality Other			
				Descri	ption of work order update		Initial	Act	ion	Sign &	र श्रेष्ट	i de la companya de l		
	Date	Step	Qty	(or Non-conformance	Ch	nief Eng	Descr	ription	Date	Verification	QC Inspector		
				ž		EALL	T CATE	COBY						
ng Ge	ear				General	170	CAIL	<u> </u>				1		
Bending Centre Not Concentric to O/S Cracks Crushed/Crimped. Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend				Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes		Inspecti Instruct Mainte Mislabe Misread Offset	on Incomplete ions Incomplete/U nance led	Jnclear	Part Incorre Part Lost/M Part Moved Positioned \	ct issing Vrong	Pressure/Forced Temperature/Cure Weld Wrong Stock Pulled Other			
	ng Ge	Date Date Date Date Cracks Crushed/C Cuffs Heat Trea Inspection Ripples in	Date Step Date Step	Date Step Qty Date Step Qty Date Step Qty Date Step Qty Conservation of Concentric to Concentric	No	Rework Scrap Use-as-is Work Order Update Date Step Qty Description of work order update or Non-conformance Bending Bend Centre Not Concentric to O/S Cracks Broken/Damaged Crushed/Crimped Burrs Cuffs Burrs Cuffs Contamination Heat Treat Countersink Inspection Strip in Tube Ripples in Bend Drill Holes	Rework Scrap Use-as-is Work Order Update Date Step Oty Description of work order update or Non-conformance Cracks Bend Bend Bend Centre Not Concentric to O/S BOM/Route Broken/Damaged Crushed/Crimped Cuffs Contamination Countersink Inspection Strip in Tube Ripples in Bend Drill Holes	Rework Scrap Use-as-is Work Order Update Date Step Qty Or Non-conformance Chief Eng Date Step Qty Description of work order update or Non-conformance Chief Eng	Rework Scrap Machining Thermoforming Large Fab Date Step Qty Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description of Work order update or Non-conformance Chief Eng Description or Non-conformance Order Eng Description Orde	Rework Scrap Use-as-is Work Order Update Initial Action Date Step Qty Description of work order update or Non-conformance Chief Eng Description Date Step Qty Description of work order update Large Fab Composite	Rework Scrap Use-as-is Work Order Update Use-as-is Use-a	Rework Scrap Use-as-is Use-as-is Work Order Update Unitial Action Sign & Verification Date Step Qty Description of work order update or Non-conformance Chief Eng Description Date Verification		

Out of Sequence

Outside Dimensions

DQA:

Date:

Turning Sequence

Wave/Twist in Tube

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

DART AEROSPACE LTD

Work Order: 90115

Description: Crosstube Assembly (205/212/412 Low Fwd)

Part Number: D212-664-147

Inspection Dwg: D212-664-147 Rev: B

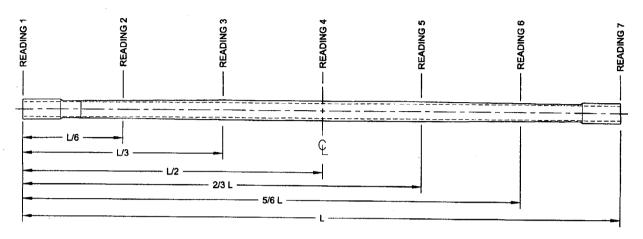
Page 1 of 2

FIRST ARTICLE INSPECTION CHECKLIST

	<u>t.</u>		T		T		
	spection Sheet wing Dimension	Tolerance	Actual Dimension	Accept	Reject	Method of Inspection	Comments
	0.313	+/-0.010		_		US	1005928
	2.360	+0.005/-0.000	2.365			VERN	CNC-08
	2.360	+0.005/-0.000	2.365				
	2.366	+0.005/-0.000	2368	/			,
	2.473	+0.005/-0.000	2.476				
	2.573	+0.005/-0.000	2.573				
EA	2.673	+0.005/-0.000	2.678				
SIDE	2.750	+0.005/-0.000	2.750				
	2.750	+0.005/-0.000	2.750			V	17
	·						
	0.313	+/-0.010				U.S.	1005978
	2.360	+0.005/-0.000	2.365			ENEVER	1005928 CNC-108.
	2.360	+0.005/-0.000	2.365				
[2.366	+0.005/-0.000	2368			1)
	2.473	+0.005/-0.000	2,476				
	2.573	+0.005/-0.000	2.368 2.476 2.575				
E B	2.673	+0.005/-0.000	2.678				
SIDE	2.750	+0.005/-0.000	2.750				
	2.750	+0.005/-0.000	2.750				R
Î						V	
	0.126.528	+/-0.020	126,528			TARE	16.22

DART AEROSPACE LTD	Work Order:	89114
Description: Crosstube Assembly (205/212/412 Low Fwd)	Part Number:	D212-664-147
Inspection Dwg: D212-664-147 Rev: B		Page 2 of 2

WALL THICKNESS MEASUREMENT



_	WALL	THICKNESS	MEASUREME	NT (IN)	Deviation		
Location	w1	w2	w3	w4	Δw (max-min)	TOLERANCE	
READING 1 L= 0"	21601	. 125	142	.)41	.028		
READING 2	.115	.125	-155	146	,046		
READING 3	-261	.217	-250	.237	,049.	> duz = 0.210	> Nominal
READING 4	. 222	,322	. 329	,330	- 008	0.048"	
READING 5	.219	,233	, 226	.2R	021		
READING 6	.123	140	.140	.125	.017		
READING 7	. 119	.126	-136	.128	.017		

		1, ,			
				Calibration Resu	lt
			Actual Block	Thickness:	_
		Sitescar	n 250 Measured	Thickness:	

Measured by:	L	Audited by:	Proto	type Approval:	N/A
Date: 12/10/0	6	Date: 12-10-21		Date:	N/A
Rev Date Change				Davis ad his	

Rev	Date	Change	Revised by	Approved
<u> </u>	08.11.07	New Issue (P/O D212-664-107)	KJ/EC	.,,,,,,,,,,
В	10.02.02	Dimension 126.528 was 126.53	KJ + A	11
С	12.06.04	Wall thickness form added	KJ O	/il

A CALLAND	Control of the second of the s		No.			40.4
						·
*.	•				•	
÷.						
					•	
B+				•	•	
		•				
			•			
•						
•						
				. *		
		•				
			•			
			•	•		
	d -					
				•		
				•		
*				·		
				•		
					•	
•	•					
			÷			
	Andreas and the second	austini (a.c.) u pais sautologia dili e				

ltem	Qty -147	Qty -147B	Part Number	Description
1	Х		D212-664-147	CROSSTUBE ASSEMBLY (205/212/412 LOW FWD)
2		х	D212-664-147B	CROSSTUBE ASSEMBLY (214 LOW FWD)
3	1	1	D6019-128	CROSSTUBE
4	2	2	D2893-1	SUPPORT
_ 5	4	4	D3595-063-450	RUBBER CUSHION
6	2	2	D3659-1	CUFF
7	4	4	MS21920-25	CLAMP (OR MS21920-26)
8	44	44	CR3212-4-06	RIVET (OR M7885/3-4-06)
9	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100, TYPE II, CLASS 2 ADHESIVE)
10	A/R	A/R	SIKAFLEX-241/-291	SEALANT (OR PROSEAL 890 OR MIL-S-8802 CLASS B2 SEALANT)

GENERAL NOTES:

В

1) MATERIAL: MANUFACTURED FROM D6019-128

2) FINISHED LENGTH = 126.528±0.020 (BEFORE BENDING/TRIMMING)
2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005.4.1
PRIME INSIDE AND OUTSIDE PER DART QSI 005.4.2 PAINT OUTSIDE PER DART QSI 005 4.2

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
 UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX. IDENTIFICATION: SCRIBE DART PART NUMBER "D212-664-XXX" AND BATCH NUMBER ON INSIDE OF CUFF USING VIBRATING STYLUS.

7) WEIGHT: D212-664-147 = 24.2 bs (PER IIN-D212-664) D212-664-147B = 24.2 lbs (PER IIN-D212-664)

- 8) PART IS SYMMETRIC ABOUT CENTERLINE.
 9) WHEN MACHINING TAPER, RUN CUTTER OFF PART. BLEND OUT EDGE LONGITUDINALY, TRANSITION SHOULD
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 8 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D., EXCEPT UP TO 10% IS ALLOWED IN AREA NOTED.

- 11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.
 12) INSTALL D2893-1 SUPPORT USING 0.03* TO 0.06* THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER
- INSTALL ATION AND PRIOR TO PACKAGING.

 13) INSTALL MS21920-25 CLAMPS (OR 26) WITH D3595-063-450 RUBBER CUSHIONS TO SECURE THE D2893-1

 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE OF CROSSTUBE SUPPORT.

 14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS
- NOT BOTTOMED-OUT AFTER TORQUING

 16) INSTALL D3659-1 CUFF AFTER CHEMICAL CONVERSION COAT BUT BEFORE PAINT, WITH A LAYER OF SIKAFLEX.241/291 OR PROSEAL 890 OR MIL.S-8802 CLASS B2 SEALANT BETWEEN CUFF AND CROSSTUBE.
- SEAL EDGE OF CUFF TO ENSURE NO GAPS. 17) TOUCH-UP HOLES WITH CHEMICAL CONVERSION COAT.

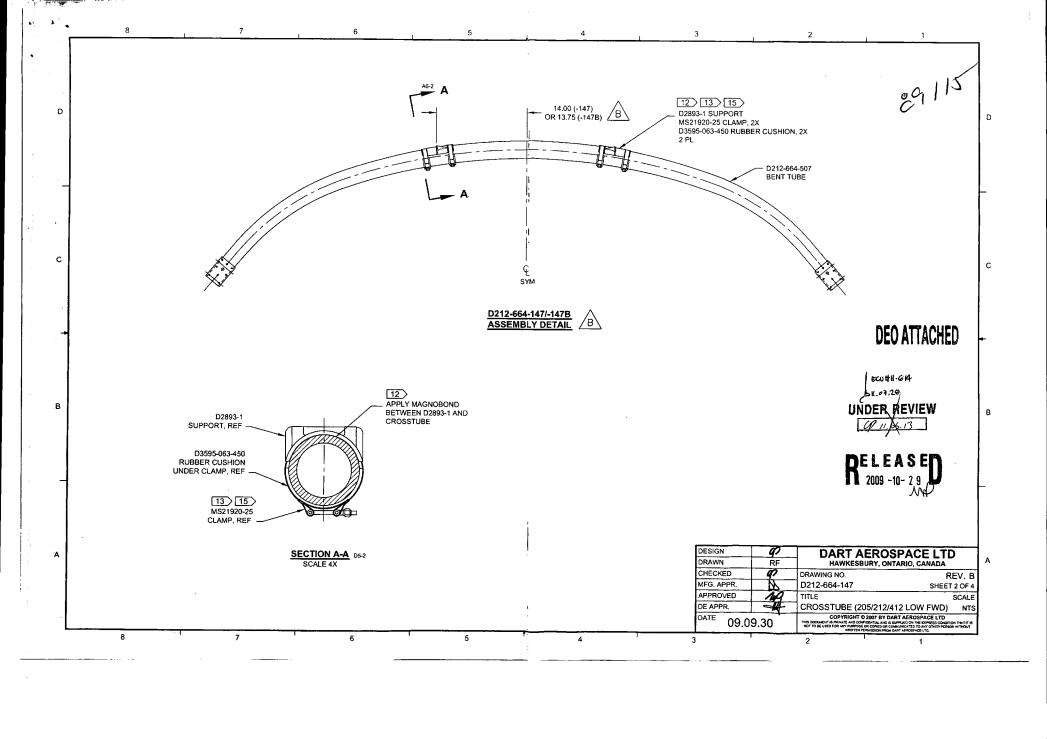
SHOP COPY RETURNITO **ENGINEERING UNCONTROLLED CUPA** SUBJECT TO AMERICANIEST WITHOUT WHICH WORK WITH MLJ 12/08/22

DEO ATTACHED

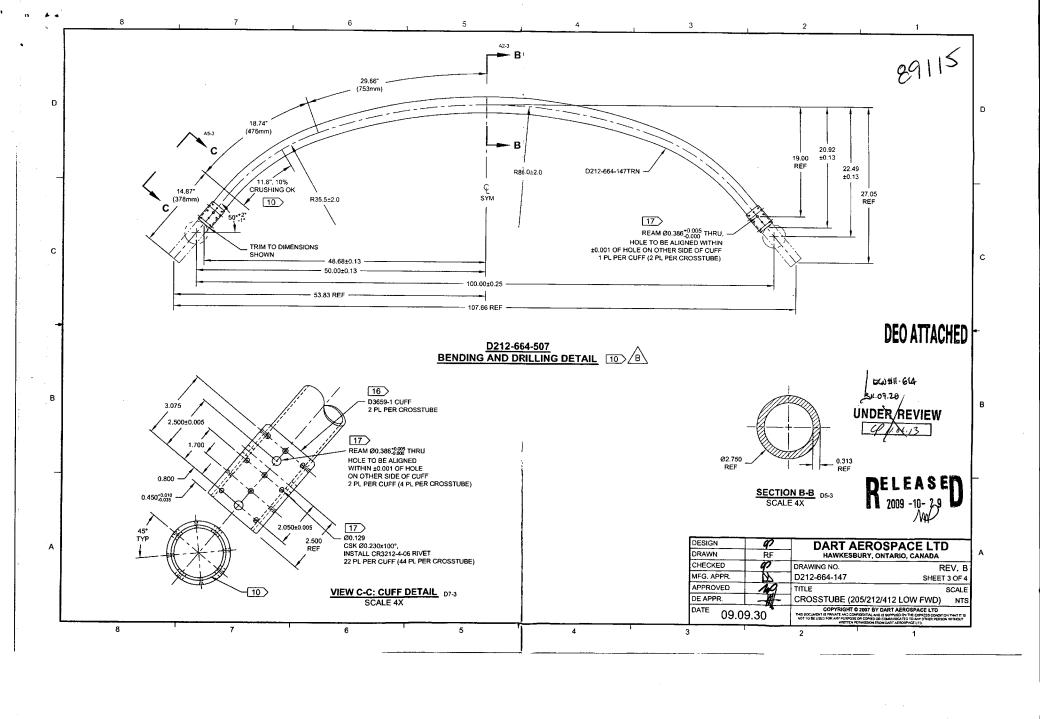
PER ECN#11.64 L 1407,-26 UNDER REVIEW

В		REVISE GENERAL NOTES/PART LIST: UPDATE TO CURRENT STANDARDS: ADD -1478 (ZN C4-2, D4-2)				
Α	NEW IS	SUE		CP	07.07.07	
REV.		DESCRIPTION			DATE	
DESIGN		q)	DART AEROSP	ACF	LTD	
DRAWN		RF	HAWKESBURY, ONTARIO, CANADA			
CHECK	Đ	P	DRAWING NO.		REV. B	
MFG. AF	PR.	- Z	D212-664-147	s	SHEET 1 OF 4	
APPRO\	√ED	10	TITLE		SCALE	
DE APPI	R.		# CROSSTUBE (205/212/412 LOW FWD)		ND) NTS	
DATE 09.09.30		9.30	COPYRIGHT © 2007 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE OWNESS CONCIDENT THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WITHOUT AFRICATION DART AEROPACE TO.			

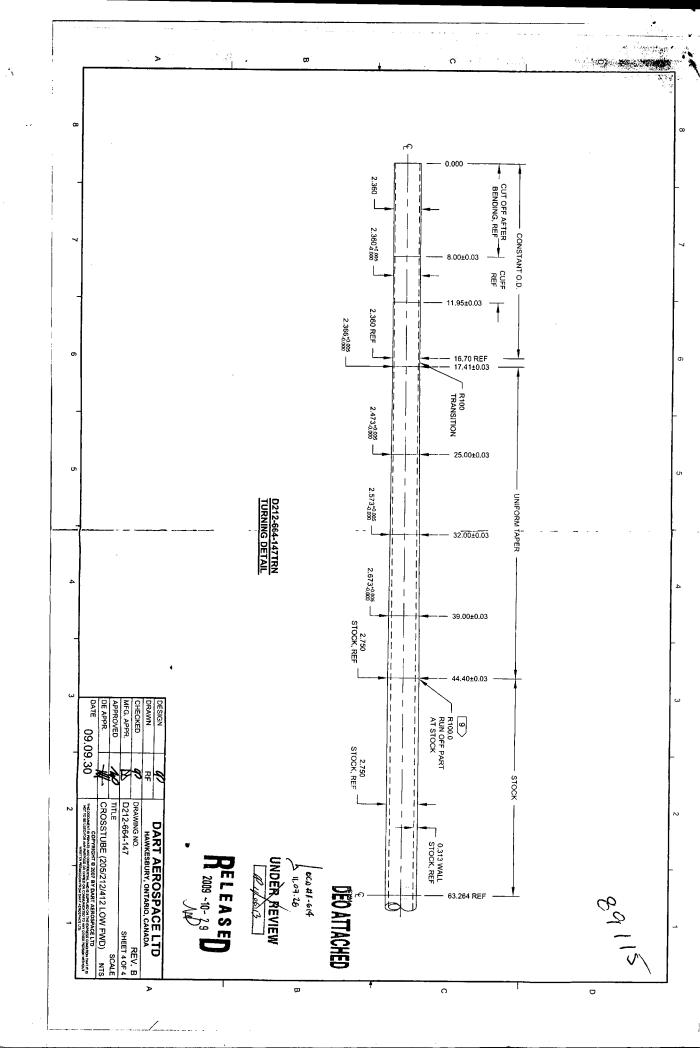
			· 사용 : 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	÷		
• :			
	and the control of th		



•		
1		
	• .	
	3.1	
•		
	• **	
, '	0 y -	
	Se	or man All and the company of the



Contraction of the contraction o	



	y	,	
		•	

DRAWING D212-66	1	REV. B TUBE ASS'Y (205 LOW FWD)			SHEET NO. SHEET 1 OF 1	SCALE
DRAWN	P	CHECKED (1)5	MFG. APPR.	APPROVED MA	DE APPR.	NTS
DATE	11.07.15	DATE 11,07,20	DATE 11.07-21	DATE 11/07/24	DATE 11.07.21	

PURPOSE:

REPLACE MAGNOBOND WITH PROSEAL.

89115

CHANGE:

IS:

item	Qty -147	Qty -147B	Part Number	Description
9	A/R	A/R	PROSEAL 890 B-2	SEALANT, AMS-S-8802 CLASS B-2

WAS:

9	A/R	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023
			į	ADHESIVE (TEXTRON/BELL SPEC. 299-947-100.
			.:	TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 15, SHEET 1 IS AMENDED AS FOLLOWS:

IS:

- 12) TO INSTALL D2893-1 SUPPORT: ABRADE MATING SURFACE OF SUPPORT AND CROSSTUBE WITH 180-GRIT SANDPAPER AND REMOVE RESIDUE WITH MEK (OR EQUIVALENT). APPLY A 0.04" TO 0.07" THICK LAYER OF PROSEAL 890 CLASS B-2 (OR AMS-S-8802 CLASS B-2) SEALANT TO MATING SURFACE OF SUPPORT.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER PROSEAL 890 SEALANT HAS CURED FOR 72 HOURS.

WAS:

- 12) INSTALL D2893-1 SUPPORT USING 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 TO THE SURFACE OF D2893-1 THAT WILL BE IN CONTACT WITH THE CROSSTUBE PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



COPYRIGHT @ 2011 BY DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONTIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONSTITUTING IT IS NOT TO BE USED FOR MY PURPOSE ON COPIED OR COMMUNICATED TO AITY OTHER PERSON WITHOUT WHITTEN PERMISSION FROM DATE ARE REPOSPACE IT.

